

We claim:

1. An isolated nucleic acid molecule comprising a first nucleotide sequence which is or is complementary to or degenerate variant of a second nucleotide sequence selected from the group consisting of SEQ ID NO: 1 through SEQ ID NO: 9395.
- 5 2. The isolated nucleic acid molecule of claim 1, wherein said isolated nucleic acid molecule encodes a *Chlorella sarokiniana* protein or fragment thereof.
3. The isolated nucleic acid molecule of claim 2, wherein said *Chlorella sarokiniana* protein or fragment thereof is the homologue of a protein set forth in Table 1.
4. The isolated nucleic acid molecule of claim 3, wherein said isolated nucleic acid molecule comprising a nucleotide sequence selected from the group consisting of SEQ ID: 1 to SEQ ID NO: 3043.
- 10 5. A substantially purified *Chlorella sarokiniana* protein homologue or fragment thereof encoded by a nucleic acid molecule that comprises a nucleic acid sequence selected from the group consisting of SEQ ID NO: 1 through SEQ ID NO: 9395.
- 15 6. A transformed cell having an exogenous nucleic acid molecule which comprises:
 - (A) an exogenous promoter region which functions in said cell to cause the production of a mRNA molecule; which is operably linked to
 - (B) a structural nucleic acid molecule, wherein said structural nucleic acid molecule comprises a nucleic acid sequence selected from the group consisting of SEQ ID NO: 1 through SEQ ID NO: 9395; which is operably linked to
 - 20 (C) a 3' non-translated sequence that functions in said cell to cause termination of transcription and addition of polyadenylated ribonucleotides to a 3' end of said mRNA molecule.
7. The transformed cell according to claim 6, wherein said cell is selected from the group consisting of an algal cell, a plant cell, a mammalian cell, a bacterial cell, a fungal cell and an insect cell.
- 25 8. The transformed cell according to claim 7, wherein said cell is an algal cell.
9. The transformed cell according to claim 8, wherein said cell is a *Chlorella sarokiniana* cell.
10. The transformed cell according to claim 7, wherein said cell is a plant cell.

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